

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

H-SAND & GRAVEL

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
sand & gravel in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 13 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: **Renewal**

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Jefferson	18	39N	06E	4	0	4	Site #2/Plattin Creek	1966 ✓
Jefferson	18	39N	06E	8	0	8	Site #3/Plattin Creek Floodplain	1967 ✓
Jefferson	01	39N	05E	1	0	1	Site #1/Plattin Creek	0607 ✓

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo, 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

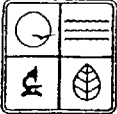
IN WITNESS WHEREOF I have hereunto set my hand this 18th day of February 2004


DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0649
Effective Date 02/18/2004
Expiration Date 11/19/2004

RECEIVED

JAN 29 2004

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND
RECLAMATION COMMISSION

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <u>H-Sand & Gravel</u>		DATE <u>12-03</u>	
ADDRESS <u>9401 Hwy 4</u>	CITY <u>D. Himer</u>	STATE <u>MO</u>	ZIP CODE <u>63023</u>
CONTACT PERSON <u>Tony Hirth</u>		TELEPHONE NUMBER <u>(314) 541-3306</u>	

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
2.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL SITE FEE		\$

2. Acreage Fee \$5 X 8 number of acres bonded 40⁰⁰ \$

3. Annual Permit Fee..... \$ 500

4. Total Fee (Add totals from 1, 2 and 3)..... \$

NOTE: If Total Fee exceeds \$2,500.00 then pay only..... \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1 Annual Permit Fee..... \$ 300

SIGNATURE OF APPLICANT <u>Anton M. Hirth</u>	TITLE <u>OWNER</u>	DATE <u>11-30-03</u>
---	-----------------------	-------------------------

Appeared before me this 30TH day of November, 20 03, Anton M. Hirth
to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE OF <u>MISSOURI</u>	COUNTY (OR CITY OF ST. LOUIS) <u>JEFFERSON</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>30TH</u> DAY OF <u>November</u> YEAR <u>03</u>	
	NOTARY PUBLIC SIGNATURE <u>Scott D. Schnurbusch</u>	MY COMMISSION EXPIRES <u>9-11-07</u>
NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>SCOTT D. SCHNURBUSCH</u>		USE RUBBER STAMP IN CLEAR AREA BELOW. SCOTT D. SCHNURBUSCH NOTARY PUBLIC - NOTARY SEAL STATE OF MISSOURI COUNTY OF JEFFERSON MY COMMISSION EXPIRES: SEPTEMBER 11, 2007

FOR DEPARTMENT USE ONLY APPROVED BY <u>[Signature]</u>	DATE APPROVED <u>2-10-04</u>	PERMIT NUMBER <u>0649</u>	EXPIRATION DATE <u>11-19-04</u>
---	---------------------------------	------------------------------	------------------------------------

Company Name K+H-Sand & Gravel		Address 9401 Highway E Y DITTMER 12847 State Road CC Yestus, Mo 63028												
Permit No. G649	Expiration Date 11/19 12/13		Operator Kenny Hulce TONY HIRTH								Phone No. (314) 937-7398			
Location County S-T-R	1994				1995				1996				Com- modity	Remarks
	N	R	B	P	N	R	B	P	N	R	B	P		
Jefferson S-1, T-39N R-5E	1	-	-	1		1		1		1		1	SG	Plattin Creek
	1	9	9	7	1	9	9	E	1	9	9	9		
Jefferson S-1 T-39N R-5E		SEE 98		SEE 98		1-AIX		1-AIX		1		1	SG	Plattin Creek
	2000				2001				2002					
Jefferson S-1 T-39N R-5E		1		1		1		1		1		1	SG	East stream Plattin Ck.
Jefferson S-18 T-39N R-6E									8			8	SG	Open Pit Site #3
Jefferson S-18 T-39N R-6E									4			4	SG	East stream Site #2
	2004				2005				2006					
Jefferson S-1 T-39N R-5E		1		1									SG	Plattin SITE #1 CREEK
Jefferson S-18 T-39N R-6E		4		4									SG	SITE #2 PLATTIN CREEK
Jefferson S-18 T-39N R-6E		8		8									SG	#3 PLATTIN CREEK FLD

LS = Limestone
CL = Clay
TS = Tar Sand
Ba = Barite

N= New acres added this year
R= Renewed acres from previous years
B= Bond released acres this year
P= Total permitted acres this year

*** -> PERMIT TRANSFERRED FROM
K+H SAND & GRAVEL TO**

H - SAND & GRAVEL W/RE

10/23/90
TURBIDITY



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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AUG 15 1994
MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Site #1		PERMIT NUMBER 649	
COMPANY NAME KMA H-Sand and Gravel			
COUNTY Jefferson	1/4 SECTION S.E.	SECTION 1	
TOWNSHIP 39N	RANGE 5-E	ACRES 1	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) Plattin Creek			
MINERAL COMMODITY Sand and Gravel		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) 5,000 - less than 10,000 tons per year	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Kenny Hulvey TONY HIRTH TH 7-1-99		
ADDRESS 12847 State Rd. cc 9401 Hwy Y		
CITY Festus DITTMER	STATE MO	ZIP CODE 63028 63023
SOURCE OF RIGHT TO MINE (CHECK ONE): <input checked="" type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as above		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

STREAM PROTECTION PLAN - 10 CSR 40-10.020(2)(D)3

(Required for in-stream sites, or as required by the Director)

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H Sand + Gravel

TYPE OF PLAN
(CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: ~~July 28, 2010~~ ~~11-19-2040~~

T.H. RECLAMATION COMMISSION

DESCRIPTION OF STREAM CONDITION PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING BANK CONDITION, BANK VEGETATION AND WATER QUALITY.

The mine plan area involves a 1/8 mile stretch of Platin Creek South of County Road CC. This section of the creek is bordered by wooded area. The banks are steep, but well vegetated. Water quality is good.

DESCRIBE METHODS USED TO REDUCE DAMAGE TO STREAM BANKS, SUCH AS PROTECTING BANK VEGETATION, IF APPLICABLE.

Removal of sand and gravel will be managed in such that water flow is not redirected toward stream banks. We will maintain a buffer zone from stream banks.

DESCRIBE METHODS USED TO REDUCE DAMAGE TO STREAM ENVIRONMENTS, SUCH AS KEEPING ACTIVE MINING OPERATIONS ON GRAVEL BARS, RATHER THAN IN FLOWING WATER, AND KEEPING HAUL ROADS AWAY FROM FLOWING WATER, IF APPLICABLE.

Gravel and sand removal will be to exposed portions of gravel and sand. We will stay at water level to avoid causing erosion of the channel on this site.

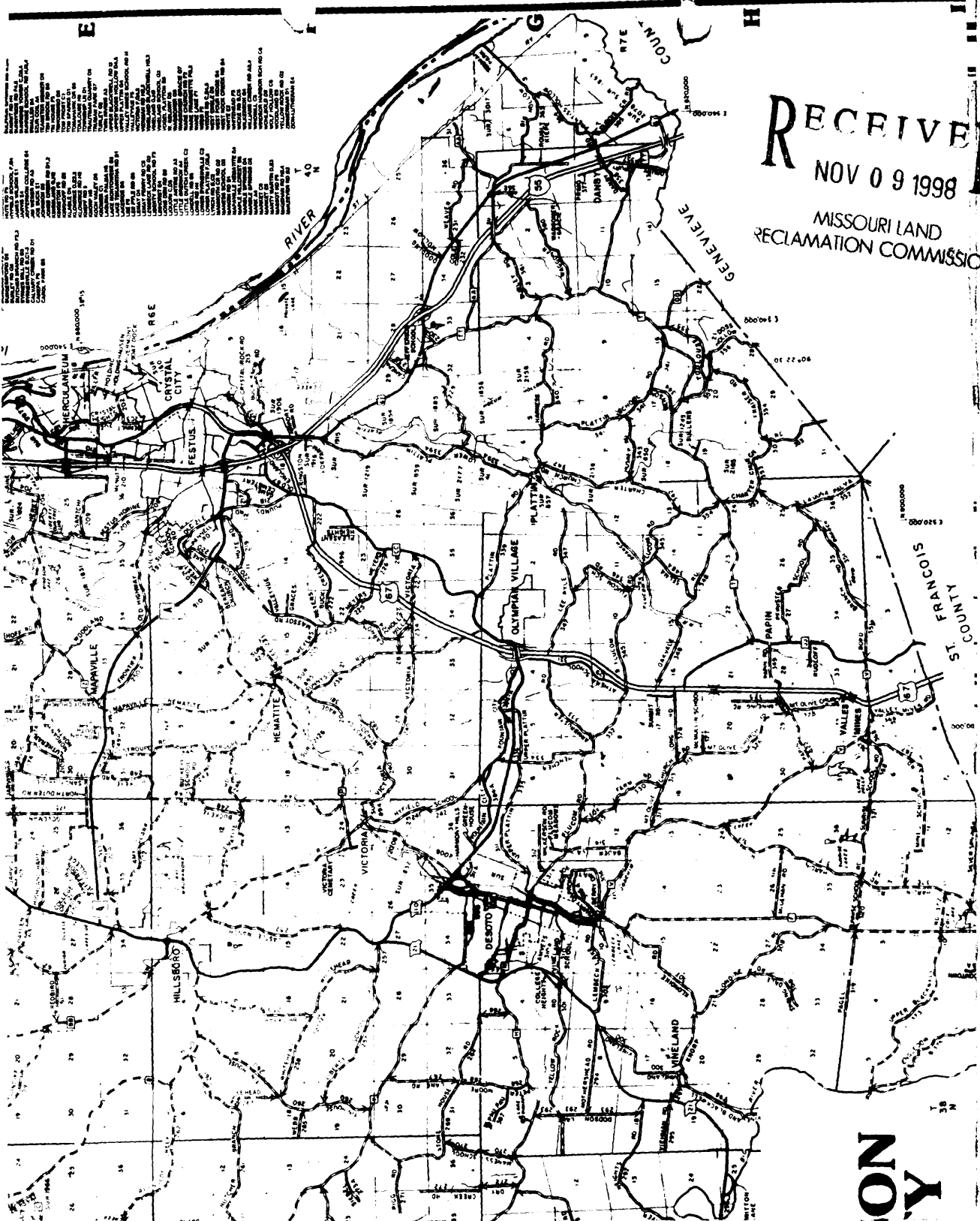
A Buffer Strip will be left between the removal site and the flowing portion of the stream.

By my signature, I attest to the following:

- 1) All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2) I or the company I am authorized to represent intend(s) to mine in accordance with this Plan, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3) I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no right to grant such access, I have attached signed affidavits from the landowners granting such access.

SIGNATURE OF APPLICANT ▶ <u>Anton M. Nitt</u>		TITLE <u>OWNER</u>	DATE <u>6-25-99</u>
Appeared before me this <u>25TH</u> day of <u>JUNE</u> , 19 <u>99</u> . <u>ANTON M. HIRTH</u> to me personally known, who executed the above as their free acts and deeds.			
NOTARY PUBLIC EMBOSSEER SEAL	STATE OF <u>MISSOURI</u> SUBSCRIBED AND SWORN BEFORE ME, THIS <u>25TH</u> DAY OF <u>JUNE</u> 19 <u>99</u>	COUNTY (OR CITY OF ST. LOUIS) <u>JEFFERSON</u> USE RUBBER STAMP IN CLEAR AREA BELOW.	
	NOTARY PUBLIC SIGNATURE <u>Jerome D. Koch</u> NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>JEROME D. KOCH</u>	MY COMMISSION EXPIRES <u>10-28-1999</u>	Jerome D. Koch Notary Public, State of Missouri County of Jefferson My Commission Exp. 10/28/1999
APPROVED BY (DIRECTOR'S REPRESENTATIVE) ▶ <u>William Soz...</u>		TITLE <u>LRS II</u>	DATE APPROVED <u>7-1-99</u>

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 NOV 09 1998
 MISSOURI LAND
 RECLAMATION COMMISSION



H - Sand and Gravel
 site #1
 Jefferson County
 S-1, T-39N, R-05E

- mine
 location

S 110 Hwy

church Rd

Chalk Creek

Hornes Rd

K&H sand & Gravel

Plattow Rd

67 Hwy

K-H Sand & Gravel
Jefferson County

Chalk Creek

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RECLAMATION COMMISSION

InterState 55

St. Louis
→

N

E

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NOV 09 1998

MISSOURI LAND
RECLAMATION COMMISSION

H. Sand & Gravel
Site #1
Jefferson Co.
S-1, T-39N, R-5E

Gravel bar
location

10 S
10 M

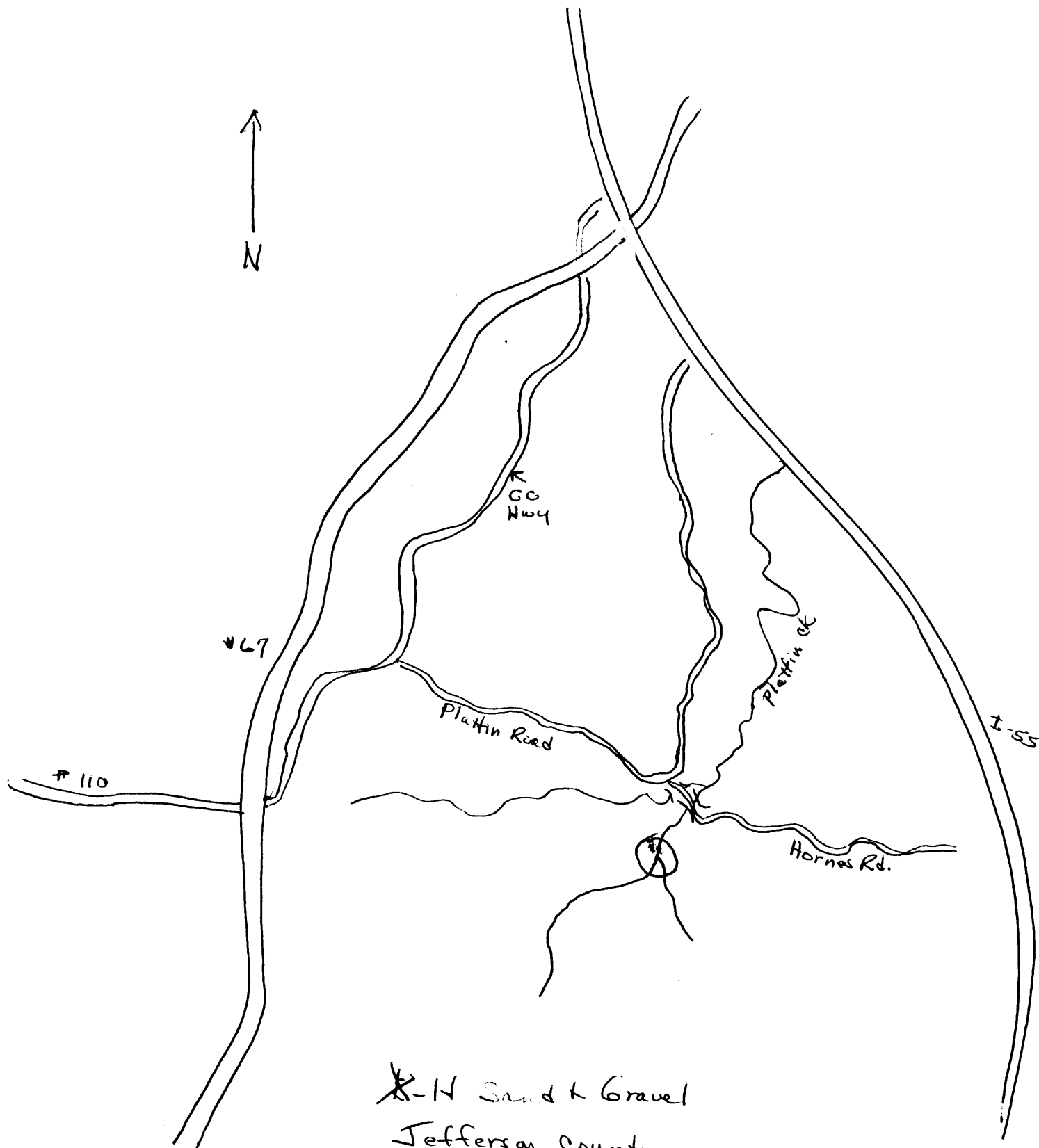
18 SURV. 851

SURVEY 471

Harness
Rd

Plattin
Creek

Plattin
Rd



X-H Sand & Gravel
Jefferson County
S-1, T-39N, R-S E



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <i>Plattin Creek #2</i>		PERMIT NUMBER <i>0649</i>	
COMPANY NAME <i>H-Sand & Gravel</i>			
COUNTY <i>Jefferson</i>	1/4 SECTION	SECT	
TOWNSHIP <i>39N</i>	RANGE <i>R6E</i>	ACRES <i>4</i>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) <i>Plattin Creek</i>			
MINERAL COMMODITY <i>Sand & Gravel</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) <i>Less than 5000 tons per year.</i>	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>Anton M. Hirth (Tony)</i>		
ADDRESS <i>9401 Hwy 4</i>		
CITY <i>Dittmer</i>	STATE <i>mo.</i>	ZIP CODE <i>63023</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>Same</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



STREAM PROTECTION PLAN - 10 CSR 40-10.020(2)(D)3

(Required for in-stream sites, or as required by the Director)

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TYPE OF PLAN
(CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 11-2099 Company Name: H-Sand & Gravel

MISSOURI LAND

DESCRIPTION OF STREAM CONDITION PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING BANK CONDITION, BANK VEGETATION AND WATER QUALITY.

The area to be mined involves a 4 acre stretch of Platin Creek ~~near~~ Huskey Rd (see map). This section of the creek is bordered by agricultural operations (cropland and pasture). A narrow width of trees borders each side of the creek. The banks are steep, but well vegetated. This is a dry creek.

Tim has been out and seen the creek. Tim from D.N.R.

DESCRIBE METHODS USED TO REDUCE DAMAGE TO STREAM BANKS, SUCH AS PROTECTING BANK VEGETATION, IF APPLICABLE.

Excavations between the stream banks will be managed such that water flow is not redirected toward the stream banks. A Twenty-five-foot width of gravel will be left undisturbed between the operation and streambank vegetation.

DESCRIBE METHODS USED TO REDUCE DAMAGE TO STREAM ENVIRONMENTS, SUCH AS KEEPING ACTIVE MINING OPERATIONS ON GRAVEL BARS, RATHER THAN IN FLOWING WATER, AND KEEPING HAUL ROADS AWAY FROM FLOWING WATER, IF APPLICABLE.

Gravel removal will be restricted to the exposed portions of gravel (gravel bars). We will shave the tops of the gravel bars to a depth no deeper than the normal water level. This will avoid causing erosion of the streambank and channel at the mining site and upstream (headcutting). Although we must cross the stream to access the gravel bars, we will always cross the creek at the same place.

Gravel removal will be restricted to periods of low flow.
 A twenty-five foot strip of gravel will be left undisturbed
 between the excavation and the stream side vegetation.
 A buffer strip will also be left between the excavation
 and the flowing portion of the stream.

By my signature, I attest to the following:

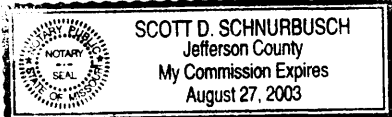
- 1) All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2) I or the company I am authorized to represent intend(s) to mine in accordance with this Plan, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3) I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no right to grant such access, I have attached signed affidavits from the landowners granting such access.

SIGNATURE OF APPLICANT ▶ <i>Antonio M. Wills</i>	TITLE <i>OWNER</i>	DATE <i>10-30-02</i>
---	-----------------------	-------------------------

Appeared before me this _____ day of _____, 19____.

_____ to me personally known,

who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE OF <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Jefferson</i>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>30TH</i> DAY OF <i>October</i> <i>10</i>	2002 <i>USE RUBBER STAMP IN CLEAR AREA BELOW.</i>
	NOTARY PUBLIC SIGNATURE <i>Scott D. Schnurbusch</i>	MY COMMISSION EXPIRES <i>08-27-03</i>
NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>SCOTT D. SCHNURBUSCH</i>		

APPROVED BY (DIRECTOR'S REPRESENTATIVE) ▶ <i>Tim Ha</i>	TITLE <i>LRSTI</i>	DATE APPROVED <i>5-23-03</i>
--	-----------------------	---------------------------------

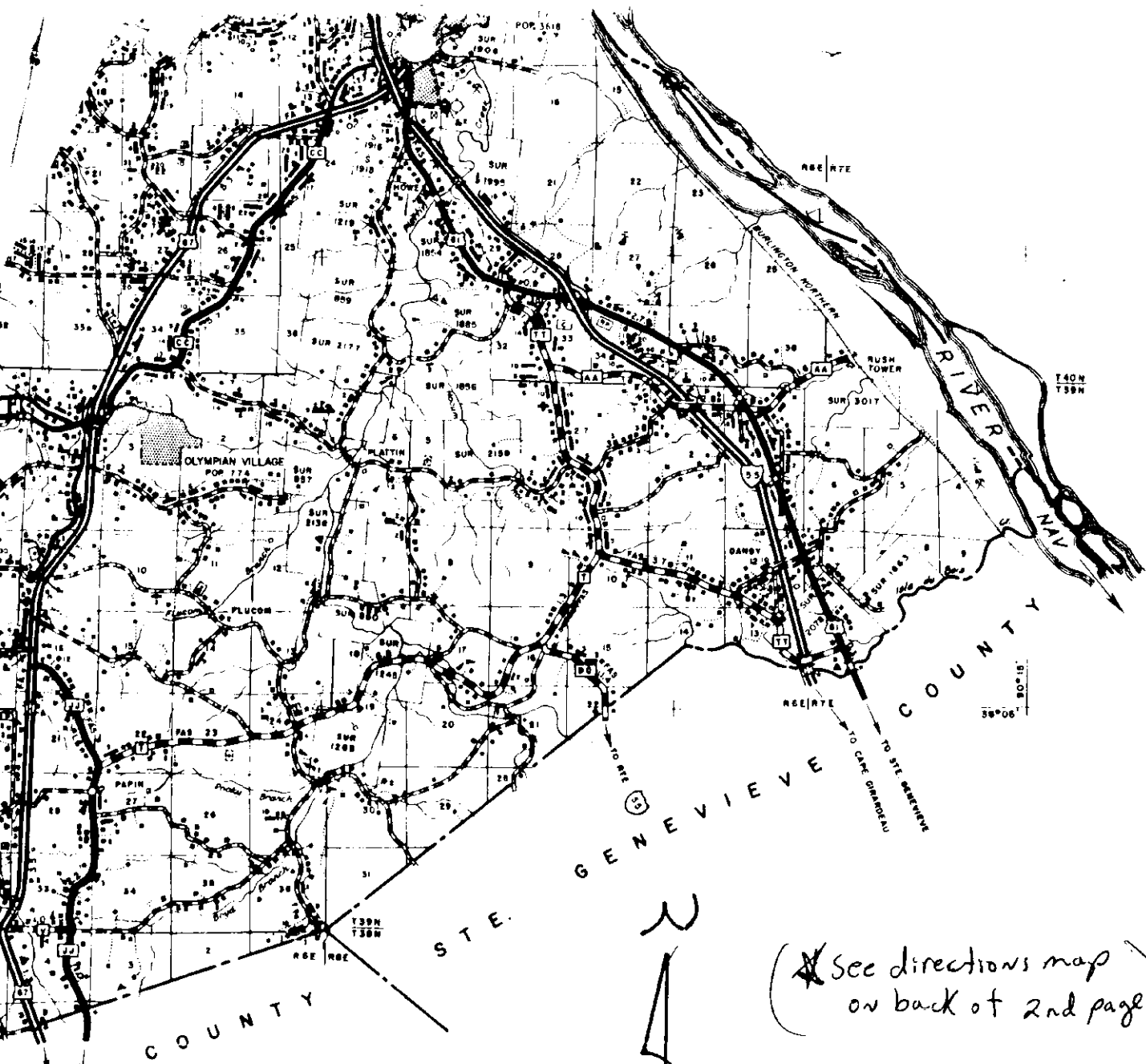
Attach the following documents to the Stream Protection Plan Form:

- A. Two copies of a map such that the mine can be located, and distinguished from other mines in the area.
- B. Two copies of a more detailed map, prepared on an original or clearly copied USGS 7-1/2 minute topographical map, county assessor map, A.S.C.S. aerial photo, up-to-date county plat, or a different base map with a scale of one inch to six hundred sixty feet (1" = 660') or larger.
 1. At minimum, the detailed map must show the following:
 - a. ownership boundaries, and names of owners of surface and subsurface rights to land within and contiguous to the permit area.
 - b. boundaries and acreage of each permitted site, and of the area to be affected over the term of the mine plan.
 - c. creeks or streams within the proposed permit area.
 - d. date of map preparation, preparer's name and title, north arrow, scale, and section, township and range lines.
 2. The following may be required for clarification:
 - a. abandoned surface mines.
 - b. locations of erosion and sediment control devices.
 - c. structures, and natural or cultural features to be protected.

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MISSOURI LAND
RECLAMATION COMMISSION



Locator Map

Company Name

H-Sand & GRAVEL

Legal Description

Section 18, Township 39 North
Range 6 EAST

Site Name

Plattin Creek Site 2+3

Date of Map Preparation

November 5, 2002

Preparer's Name

ASTON HIRTH

GENERAL HIGHWAY MAP

JEFFERSON COUNTY



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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DEC 20 2002

MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER

PERMIT NUMBER

Bo Hornless Pit No. 1 (Site #3)

0649

COMPANY NAME

H-Sand & Gravel

COUNTY

1/4 SECTION

SECTION

Jefferson

18

TOWNSHIP

RANGE

ACRES

39 N

6E

90 Acres

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

N/A

MINERAL COMMODITY

ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

Sand & Gravel

5000 +

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)

Anton M. Hirth

ADDRESS

9401 Hwy Y

CITY

STATE

ZIP CODE

Dittmer

MO.

63023

SOURCE OF RIGHT TO MINE (CHECK ONE):

DATE OF AGREEMENT

☐ MINERAL DEED

☐ LEASE

☒ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE):

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)

Same

ADDRESS

CITY

STATE

ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

DATE OF AGREEMENT

☐ MINERAL DEED

☐ LEASE

☒ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE):

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

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P.O. BOX 176
JEFFERSON CITY, MO 64602
LAND RECLAMATION COMMISSION

COMPANY NAME

H- Sand & Gravel

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 11-2099

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Bo Homless Pit #1

This Plan covers an area of approximately 90 Acres (see map)
The Entire mine area is flat & level in a Flood Plain. Covered with
Top soil & is Rocky. The area is bordered to the SE. by Hwy T,
to the North by Huskey Rd This is all an open field Area.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

36" to 48" INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☒ YES ☐ NO sold

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The Top soil will be removed with a hyLift & Trackhoe
& also a Scraper.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The scrapers will deposit the soil in stockpiles at the
pit area. It will be shaped, seeded with grass
to protect it from erosion.

PERMIT NO.

0649

SITE NUMBER/NAME

DEC 20 2002

B. SOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND
RECLAMATION COMMISSION

All overburden removed from pit will be placed in the mounded-out portions of the pit & graded to traversable slopes (3:1) before top soil is replaced.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NO NE N/A.

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

As you enter prop. off of Huskey Rd. The first cut will be in the Southeast corner of the Permitted area. From there the pit will advance to the North. The excavation will be sloped to a grade of less than 40° degrees.

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road?
(NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

PERMIT NO.

0649

SITE NUMBER/NAME

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RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

MISSOURI LAND

RECLAMATION COMMISSION

B. SEEDING OR PLANTING TIME

#1

Lake, Wildlife

Spring (MAR 15 - May 15)

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first Spring following topsoil replacement, the seed mix will be broadcast and harrowed. This is flood plain area & center will be left as lake area.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard Grass Red clover Lespedeza	30# 10# 10#	None Here. all field area.	

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

PERMIT NO.

0649

SITE NUMBER/NAME

DEC 20 2002

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

All spoil areas will be graded to slopes traversable by farm machinery. A 80 acre lake will be constructed in the final pit area. The lake will be designed and constructed to meet SCS standards.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

Grading will be done as the pit advances and as spoil is placed in the mined-out portions. Final grading will be completed within one year of permit expiration on all mined-out portions.

REPLACEMENT OF TOPSOIL

Top soil will be replaced to a uniform depth of 12 inches, and disced to reduce compaction. Top soil will be replaced within one year of permit expiration on all mined-out portions.

REVEGETATION

All topsoil areas will be seeded during the first optimum seeding period following top soil replacement

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12 inches.

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

10 Acres.

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agriculture, or development)

80 Acres.

PERMIT NO.

0649

SITE NUMBER/NAME

RECEIVED

DEC 20 2002

By my signature, I attest to the following:

MISSOURI LAND
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Arthur M. Harts</i>		TITLE OWNER, operator	DATE 10-30-02
NOTARY PUBLIC EMBOSSEY OR BLACK INK RUBBER STAMP SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) JEFFERSON	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 30TH DAY OF October YEAR 2002		USE RUBBER STAMP IN CLEAR AREA BELOW.
	NOTARY PUBLIC SIGNATURE <i>Scott D. Schnurbusch</i>	MY COMMISSION EXPIRES 08-27-03	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) SCOTT D. SCHNURBUSCH		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Tim Zhan</i>		DATE APPROVED 5-23-03	PERMIT NUMBER 0649

RICT
CE DISTRICT

SECTION
C-CC
C-CC
0 EFF 94

and of Gravel
101 Hwy 1
Dittmer, mo.
63023
Best way to contact me.
mob. (314) 541-3306
plant (636) 933-9297.

Tony Hirth 1-2003

Jefferson Co.
S-18 T-39N, R-6E

- open-pit acres
(long term mine plan)

- in-stream acres

FOR BALANCE
SEE 23-6